

What is claimed is:

1. A magnetic tape apparatus comprising a sliding portion against which a magnetic tape is in sliding contact, wherein  
5        said sliding portion has at least one flat portion formed by cutting a circumferential surface of said sliding portion so that the flat portion is substantially parallel to a sliding contact surface of said magnetic tape, and has a plurality of peak portions formed by cutting so that said peak portions  
10        protrude from said flat portion at a predetermined pitch.
2. The magnetic tape apparatus according to claim 1, wherein, under conditions such that a surface roughness defined as an  $R_{max}$ , which is a maximum height of said peak portion, falls  
15        in the range from 0.5 to 2.0  $\mu m$ , the width of said flat portion has an upper limit of 230  $\mu m$  and a lower limit within the range defined by a line formed by connecting points (0.5, 50), (1.0, 20), (1.5, 15), and (2.0, 10), the first coordinate of the point being the surface roughness ( $\mu m$ ), and the second  
20        coordinate being the width ( $\mu m$ ) of said flat portion.
3. The magnetic tape apparatus according to claim 1, wherein said sliding portion is a drum comprising a magnetic head for recording and/or reproducing information on said magnetic  
25        tape.
4. The magnetic tape apparatus according to claim 1, wherein said sliding portion is a guide for guiding said magnetic tape.
- 30        5. The magnetic tape apparatus according to claim 3, wherein said drum comprises a rotary drum having said magnetic head

and being capable of rotary, and a stationary drum supporting said rotary drum with a shaft and being fixed,

wherein said flat portions and said peak portions are formed so as to extend in the circumferential direction of said rotary drum and to substantially parallel to a lead portion,  
5 formed in said stationary drum, for guiding said magnetic tape.

6. The magnetic tape apparatus according to claim 5, wherein the circumferential surface of said stationary drum processed  
10 by cutting has a surface roughness of 1 to 2  $\mu\text{m}$ , said surface roughness being defined in terms of a maximum height of said peak portions.

7. The magnetic tape apparatus according to claim 4, wherein  
15 the circumferential surface of said guide processed by cutting has a surface roughness of 0.1 to 10  $\mu\text{m}$ , said surface roughness being defined in terms of a maximum height of said peak portions.

8. A method for producing a magnetic tape apparatus  
20 comprising a sliding portion against which a magnetic tape is in sliding contact, said method comprising the steps of:

forming at least one flat portion by cutting a circumferential surface of said sliding portion so that the flat portion is substantially parallel to a sliding contact  
25 surface of said magnetic tape; and

forming a plurality of peak portions by cutting so that the peak portions protrude from said flat portion at a predetermined pitch.